
ENERGY PRODUCTION AND MANAGEMENT 2020 CONFERENCE

OVERVIEW

With the main objective to preserve our delegates' well-being, but also with the belief that the scientific community should not be stopped, WIT decided that Energy Production & Management 2020 should not take place as scheduled, in Tallinn, Estonia, but take place as an online event instead.

The conference was organised by the Wessex Institute, UK, represented by Professor Stavros Syngellakis, the Ural Federal University, Russia, represented by Professor Elena Magaril and STARC, Universiti Teknologi PETRONAS, Malaysia represented by Professor Hussain Al-Kayiem.

The conference, which started in Ekaterinburg, Russia in 2014, is well-established and always attracts a wide international spread of delegates. The aim of the meeting is to discuss the future of energy production, operation and management in a changing world. The objective is to compare conventional energy sources, particularly hydrocarbons, with a number of other ways of producing energy, emphasising new technological developments, based on renewable resources such as solar, hydro, wind and geothermal. An important objective of the conference is to discuss ways in which more efficient use can be made of conventional as well as new energy sources. This relates to savings in energy consumption, reduction of energy losses, as well as the implementation of smart devices and the design of intelligent distribution networks.

OPENING OF THE CONFERENCE

The conference opened with a presentation of the Wessex Institute followed by an opening address of the Energy Production & Management Conference Series, welcoming delegates to this year's event.

INVITED PRESENTATIONS

There were a series of invited lectures on advanced topics of research and applications, as follows:

“Application of modified gasoline to increase energy efficiency and environmental parameters of vehicles operation”, **Elena Magaril**, Ural Federal University, Russia.

“Analysis of biomasses for their thermochemical transformations to biofuels”, **Pushpa Jha** SLIET, India.

“Analysis of a ground thermal control system for solar VT performance enhancement”, **Hussain Al-Kayiem**, STARC, Universiti Teknologi PETRONAS, Malaysia.

“Energy engineering and consulting: new challenges and reality”, **Mikhail Kozhevnikov**, Ural Federal University, Russia.

“Wind turbines designed for easy installation”, **Ove T. Gudmestad**, University of Stavanger, Norway.

“Pyrolysis of plastic waste to environmental friendly products”, **Britt M. E. Moldestad** University College of Southeast Norway.

“Approaching the development of a universal molten salt fast reactor for worldwide destruction of high-level nuclear waste”, **Rockley Boothroyd**, Independent Consultant, Australia.

“Competitive development of energy cogeneration systems in conditions of economic imbalances”, **Alexey Domnikov**, Ural Federal University, Russia.

CONFERENCE SESSIONS

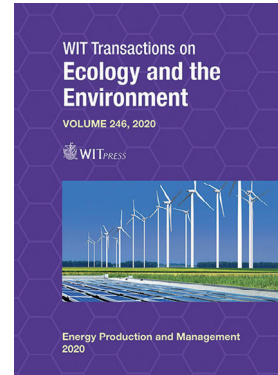
The papers presented during the conference were classified under the following headings:

- Energy efficiency
- Biomass and biofuels
- Solar energy: Thermal, photovoltaic, high –T
- Smartgrid and microgrid
- Energy conversion and generation
- Offshore and inland wind farm technologies
- Waste to energy
- Nuclear energy
- Energy storage
- Energy management and economics
- Energy and the built environment

CONFERENCE PUBLICATION

Papers presented at this conference will appear in Vol. 246 of the WIT Transactions on Ecology and the Environment (ISSN 1743-3541). Papers presented at the meeting will be available Open Access in the eLibrary of the Wessex Institute (<https://www.witpress.com/elibrary>) from where they can be freely downloaded by any interested parties.

A few papers were selected for publication in this journal.



CLOSING OF THE CONFERENCE

We are very sorry that we were not able to meet our delegates in person this year.

WIT is aware that one of the benefits of the conferences is the networking among colleagues and the only reason for implementing this strategy is the exceptional circumstances created by the Covid-19 crisis. Thus, to allow the authors to maintain that capability, delegates registered for this conference, and had their paper accepted for publication, are able to attend the next conference in the series (or a different conference of their choice devoted to similar topics that takes place prior to that) free of charge, and if they wish, make an oral presentation of their published paper.

We would like to thank the delegates for participating in the event and look forward to meeting them at the next conference in the series.